## Civil Report Card On GPS Performance August 2008

Operational Performance Parameter	CY 2007	July 2008	August 2008	Long term	Short term
Availability Parameters					
Average Number of satellites usable	29.80	30.94	30.98	<b>^</b>	<b>→</b>
Average number of satellites usable in primary slots	23.91 (99.62%)	23.97 (99.85%)	23.98 (99.90%)	<b>→</b>	<b>→</b>
Average availability of 6 satellites in view	99.99%	99.99%	99.99%	<b>→</b>	<b>→</b>
99.99% Horizontal DOP					
Area Median	1.8	1.6	1.6	<b>^</b>	<b>→</b>
Worst Site	3.4	11.9	3.4	<b>→</b>	<b>^</b>
99.99% Vertical DOP					
Area Median	3.3	2.9	3.5	•	•
Worst Site	7.4	11.3	7.5	<b>→</b>	<b>^</b>
99.99% Position DOP (PDOP)					
Area Median	3.6	3.2	3.8	•	Ψ
Worst Site	7.8	15.1	7.7	<b>→</b>	<b>^</b>
Accuracy Parameters  RMS Single Frequency User Range Error					
Constellation Median	1.77	1.43	1.49	<b>^</b>	<b>→</b>
Worst Satellite	2.29	1.89	1.92	<b>^</b>	<b>→</b>
95% Horizontal Error					
Area Median	2.32	1.94	2.03	<u>^</u>	<b>→</b>
Worst Site	3.63	2.21	2.64	<b>^</b>	Ψ
Availability (% <4.5m (historical 3- sigma))	99.81%	99.96%	99.99%	<b>^</b>	<b>^</b>
	95% Vertical Erro				
Area Median	4.45	3.54	3.65	<u> </u>	<b>→</b>
Worst Site	4.95	4.21	4.36	<u> </u>	<b>→</b>
Availability (% < 9m (historical 3- sigma))	99.92%	99.98%	99.98%	<b>^</b>	<b>→</b>

Key: ↑ improving ♥ worsening → no significant change Long Term is current month vs. prior 24 months, Short Term is current month vs. prior month

Compiled from WAAS network as requested by the Defense Science Board

North America GPS PDOP 99.99% Index August 2008







